

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-833  
Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Ford Motor Company exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type (Certification Fuel): Gasoline (Indolene)

Engine Family: XFMXT03.02GC Displacement: 3.0 Liters (183 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Dual Three Way Catalytic Converters  
Dual Heated Oxygen Sensors (two)  
Exhaust Gas Recirculation  
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) LEV certification exhaust emission standards for this engine family in grams per mile are:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>	<u>CO (20°F)</u>
3751-5750	50,000	0.100	4.4	0.4	0.018	12.5
	100,000	0.130	5.5	0.5	0.023	n/a

The LEV certification exhaust emission values for this engine family in grams per mile are:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>	<u>CO (20°F)</u>
3751-5750	50,000	0.063	0.7	0.1	0.002	6.0
	100,000	0.072	0.8	0.1	0.002	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235),

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model- Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 15<sup>th</sup> day of July 1998.

A handwritten signature in black ink, appearing to read "R. B. Summerfield". The signature is stylized with a large, looping initial "R" and a cursive "B".

R. B. Summerfield, Chief  
Mobile Source Operations Division

**1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET**  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer Ford Motor Company Exh. Eng. Fam.: XFMXT03.02GC Evap. Fam.: XFMXE01558BE  
 Engine Code Types: CA XXX 49S     50S     ORVR: Yes     No XXX  
 Exhaust Std: CA Tier-1     TLEV     LEV XXX ULEV     ZEV     U.S. EPA TIER-1      
 Vehicle Class(es): PC     LDT1     LDT2 XXX MDV1     MDV2     MDV3     MDV4     MDV5      
 Single Cert Std for Multi-Class Eng Fam:     (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)  
 Exhaust Emiss. Test Fuel: Indolene Clear XXX Fuel Type: Dedicated Gasoline XXX  
 Evaporative Emission Test Procedure: California     Federal XXX  
 Service Accumulation: Std AMA     Mod AMA     Mfr ADP XXX Other      
 NMOG Test Procedure: N/A     Std XXX Equiv     R/L Test Procedure: SHED     Pt.Source XXX  
 Engine Configuration V-6 Displacement: 3.0 L (183 in<sup>3</sup>)  
 Valves/Cyl: 02 Rated HP: 150 @ 5000 RPM  
 Engine: Front XXX Mid     Rear     Drive: Fwd XXX RWD     4WD-FT     4WD-PT      
 Exhaust Control System and Special Features 2TWC, 2HO2S(2), EGR, SFI  
 (Use abbreviations per SAE J1930 SEP91)

EngineCode (California)	Vehicle Models	Trans.			Ignition Part No (PCM)	EGR System Part No	Catalytic Converter Part No
		A-Auto	M-Man				
			ETW	DPA			
9LAABCBA	Windstar Van & Wgn	A4	4000	*	XF2F-DA	XF2E-AA	XF22-HA
9LAABCBA	Windstar Van & Wgn	A4	4250	*			
9LAABCBA	Windstar Van & Wgn	A4	4500	*			
9LAABCBN	Windstar Van	A4	4000	*			

\* See page 20.09.17.02 - 2 for DPA Values

Engine Family: XFMXT03.02GC  
 Issued: July 08 1998  
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WINDSTAR P205/70R15 TIRE	3875	16.02	(C)	8.5	14.91	15.15	(C)	9.4	15.77
	4000	16.38	(C)	8.5	15.06	15.51	(C)	9.4	15.90
	4250	17.09	(C)	8.5	15.33	16.24	(C)	9.4	16.14
	4500	17.80	(C)	8.5	15.59	16.96	(C)	9.4	16.36
WINDSTAR P215/70R15 TIRE	3875	15.88	(C)	8.9	15.04	14.98	(C)	9.8	15.95
	4000	16.28	(C)	8.9	15.14	15.38	(C)	9.8	16.03
	4250	17.09	(C)	8.9	15.33	16.18	(C)	9.8	16.19
	4500	17.90	(C)	8.9	15.49	16.98	(C)	9.8	16.34

Engine Family: XFMXT03.02GC

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Revised: